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FIGURES

Figure 1A (schematic drawing)

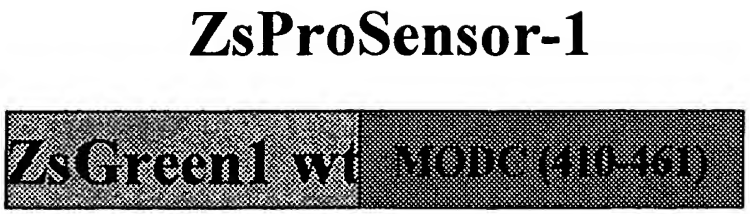

Figure 1B: sequence

atggcccagtccaagcacggcctgaccaaggagatgaccatgaagtaccgcatggagggctgcgtggatggccacaa
gttcgtgatcaccggcgagggcatcggctacccttcaagggcaagcaggccatcaacctgtgcgtggtggagggcgg
ccccttgcccttcgccgaggacatcttgtccgccgccttcaactacggcaaccgcgtgttcaccgagtacccccaggacat
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gccgacggccccgtgatgaagaagatgaccgacaactgggagccctcctgcgagaagatcatccccgtgcccaagca
gggcatcttgaagggcgacgtgagcatgtacctgctgctgaaggacggtggccgcttgcgctgccagttcgacaccgtgt
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tgtggcaactcatgaaacagatccagagccatggcttcccgccggaggtggaggagcaggatgatggcacgctgccca
tgtcttgtgcccaggagagcgggatggaccgtcaccctgcagcctgtgcttctgctaggatcaatgtg

Figure 2: Targeting of ZsGreen to degradation by the proteasome using motif from MODC.

Figure 2A: Flow Cytometry. Mean Fluorescence Intensities (MFI) of HEK 293 cells transiently transfected with plasmids encoding ZsGreen, ZsGreend1 and ZsGreend410. Standard deviations from duplicates.

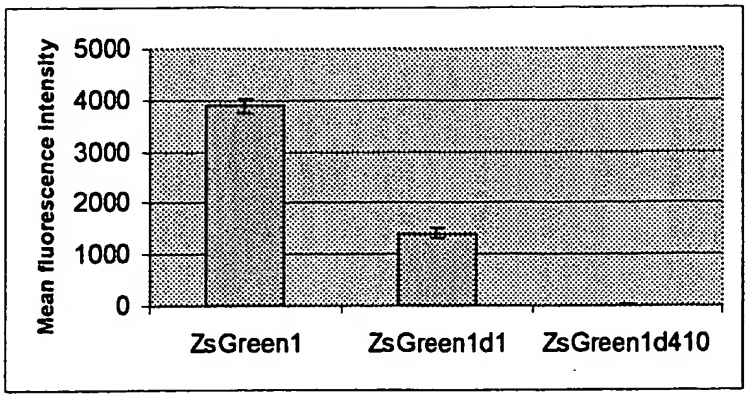


Figure 2B: Flow Cytometry. Same as 1A. Cells were treated for 0 to 6 hours with 10 ug/ml ALLN.

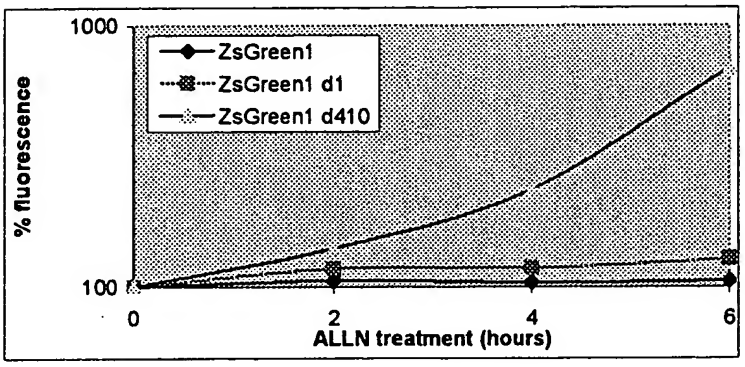


Figure 3: Generation of stable cell clone expressing ZsGreend410 to monitor the activity of the proteasome in a HTS fashion.

Figure 3A: Flow Cytometry. MFI of a stable clone of HEK 293 transfected with a plasmid encoding ZsGreend410. Cells treated for 6 hours with or without 10 ug/ml ALLN. Standard deviations from duplicates.

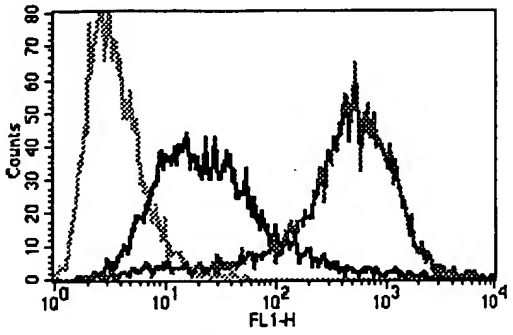


Figure 3B: Microscopy. Micrographs of a stable clone of HEK 293 transfected with a plasmid encoding ZsGreend410. Cells treated for 10 hours with 10 ug/ml ALLN. Micrographs taken with same exposure times.

Figure 3C: 96 well plate fluorescence reader. Standard deviation from triplicates.

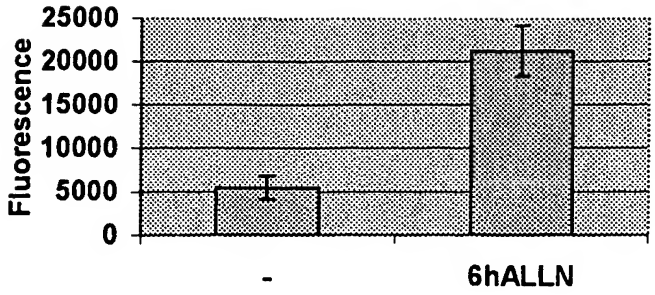


FIGURE 4 (same as 2B with the stable clone)

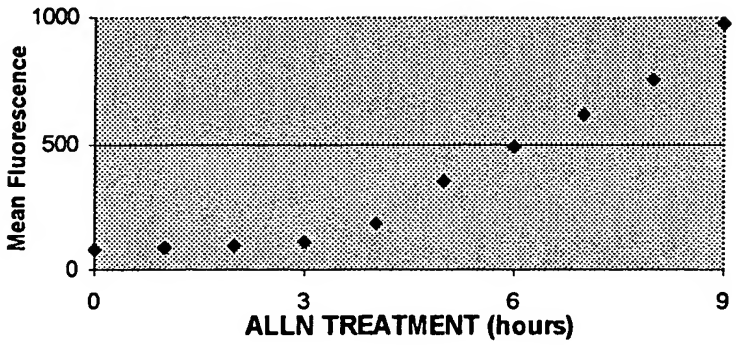
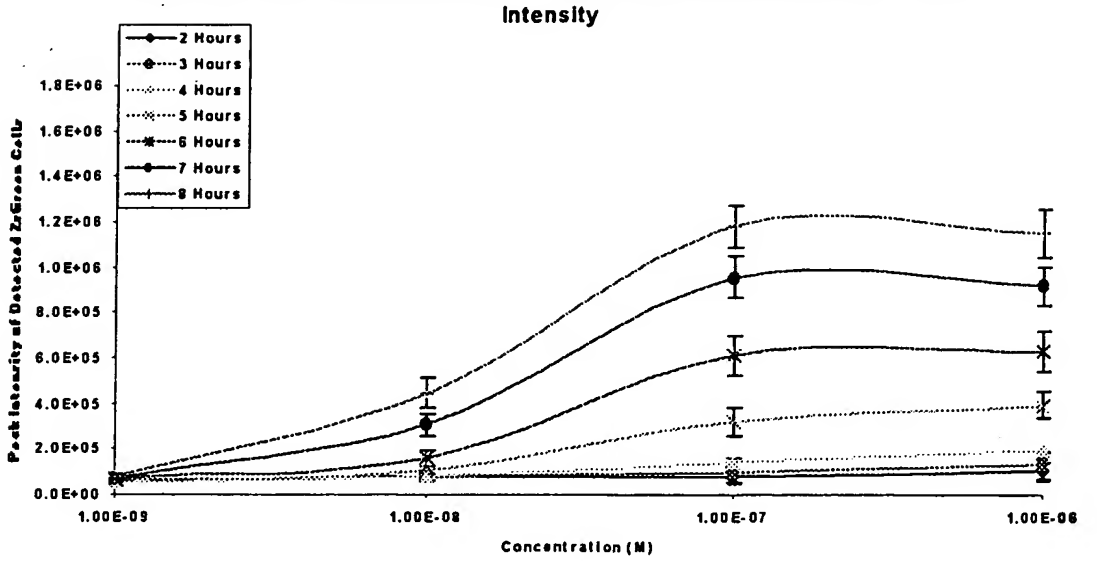
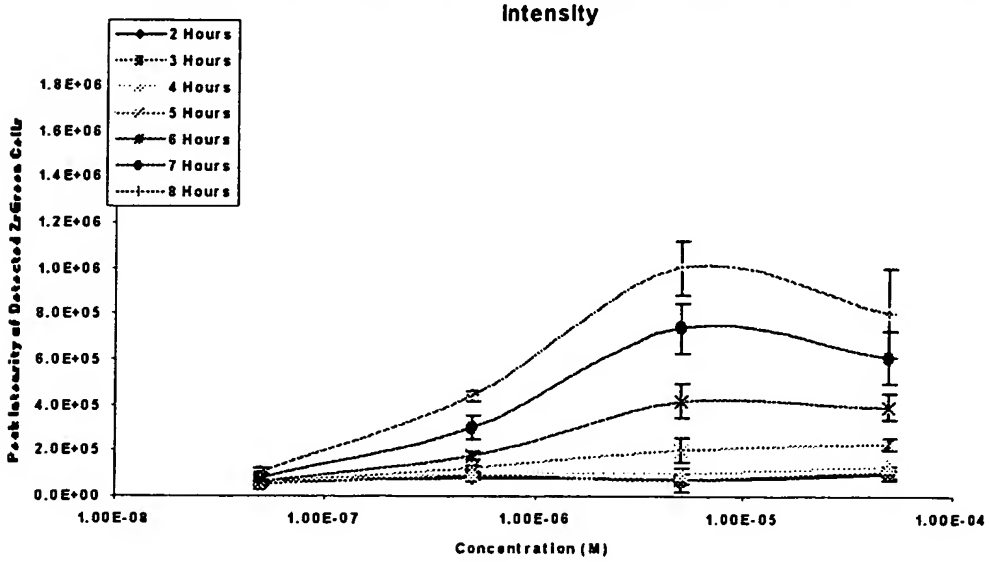


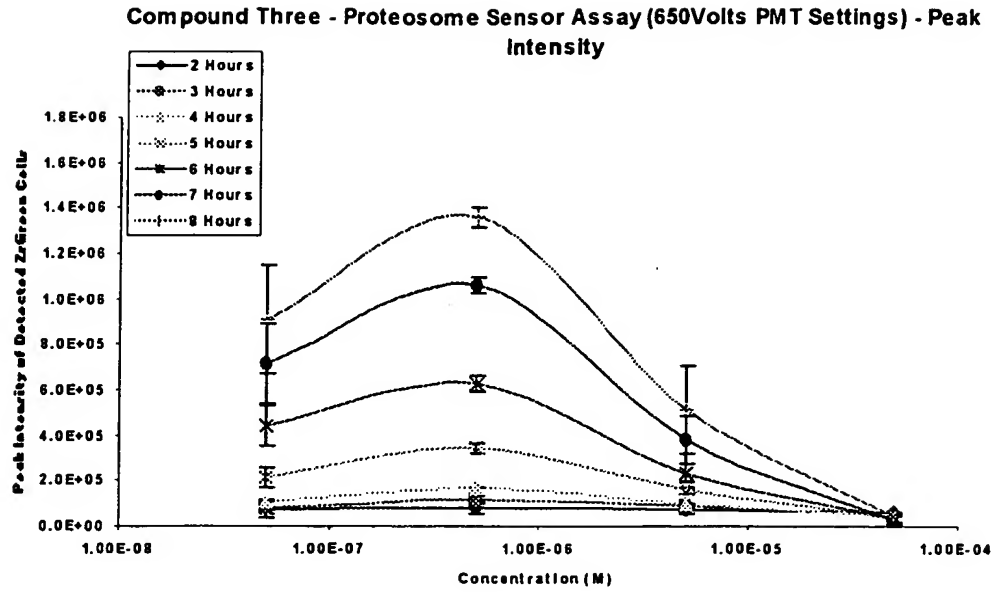
Figure 5A, B, C and D. Dose response curve obtained with the stable clone and Acumen explorer machine. Compound 1=Epoxomycin; compound 2=Lactacystin; compound 3=ZLLH; compound 4=ALLN.

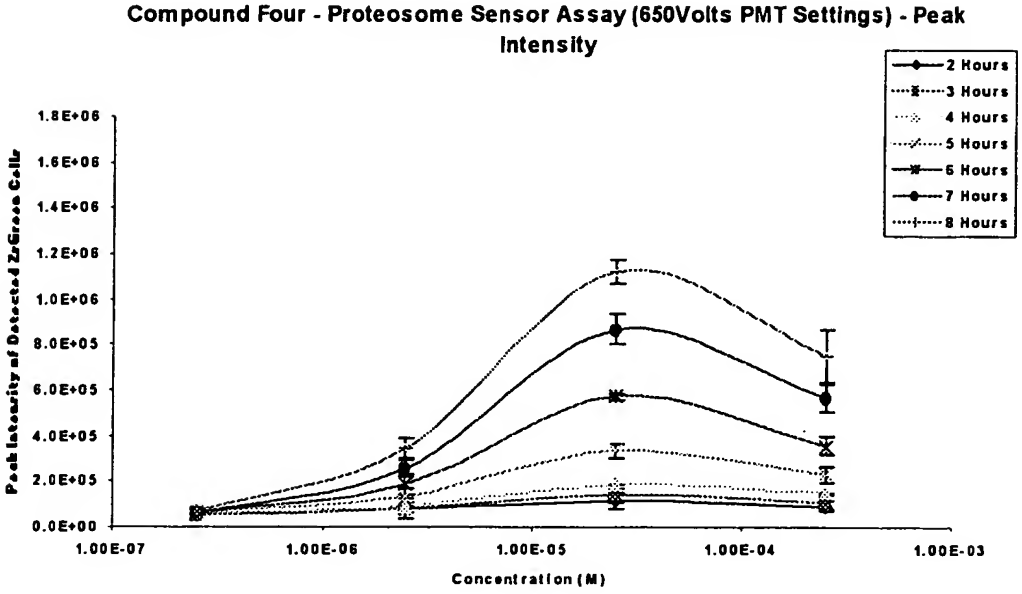
Compound One - Proteosome Sensor Assay (650Volts PMT Settings) - Peak Intensity



Compound Two - Proteosome Sensor Assay (650Volts PMT Settings) - Peak Intensity




Compound Three - Proteosome Sensor Assay (650Volts PMT Settings) - Peak Intensity
2 Hours
3 Hours
4 Hours
5 Hours
6 Hours
7 Hours
8 Hours
1.8E+06
1.6E+06
1.4E+06
1.2E+06
1.0E+06
8.0E+05
6.0E+05
4.0E+05
2.0E+05
0.0E+00
1.00E-08
1.00E-07
1.00E-06
1.00E-05
1.00E-04
Concentration (M)


Compound Four - Proteosome Sensor Assay (650Volts PMT Settings) - Peak Intensity
2 Hours
3 Hours
4 Hours
5 Hours
6 Hours
7 Hours
8 Hours
1.8E+06
1.6E+06
1.4E+06
1.2E+06
1.0E+06
8.0E+05
6.0E+05
4.0E+05
2.0E+05
0.0E+00
1.00E-07
1.00E-06
1.00E-05
1.00E-04
1.00E-03
Concentration (M)